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(FILE 'HOME' ENTERED AT 21:55:18 ON 02 DEC 2008)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH, LIFESCI' ENTERED AT 21:55:45 ON 02 DEC 2008

L1 5234 S (FORM? OR PRODUC? OR GENERAT?) (5A) (EMBRYOID(W)BOD? OR EB)  
L2 76 S (AGITAT? OR ROCK? OR STIR?) (8A) STEM(W)CELL  
L3 7 S (AGITAT? OR ROCK? OR STIR?) (8A) (MULTIPOT? OR PLURIPOT?) (5A)CE  
L4 7 S L1 AND L2  
L5 3 DUP REM L3 (4 DUPLICATES REMOVED)  
L6 3 DUP REM L4 (4 DUPLICATES REMOVED)  
L7 291 S SUSPENSION(6A) STEM(W)CELL  
L8 56 S SUSPENSION(6A) (MULTIPOT? OR PLURIPOT?) (5A)CELL  
L9 323 S L7 OR L8  
L10 25 S L1 AND L9  
L11 18 DUP REM L10 (7 DUPLICATES REMOVED)

=> d au ti so pi 1-3 15

L5 ANSWER 1 OF 3 MEDLINE on STN DUPLICATE 1  
AU Fernandes A M; Fernandes T G; Diogo M M; da Silva C Lobato; Henrique D;  
Cabral J M S  
TI Mouse embryonic stem cell expansion in a microcarrier-based stirred  
culture system.  
SO Journal of biotechnology, (2007 Oct 31) Vol. 132, No. 2, pp. 227-36.  
Electronic Publication: 2007-06-07.  
Journal code: 8411927. ISSN: 0168-1656.

L5 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN  
IN Kolossov, Eugen; Kettenhofen, Ralf; Kopp, Isabella; Bohlen, Heribert;  
Schwengberg, Silke  
TI Novel method for the preparation of embryoid bodies (ebs) and uses thereof  
SO PCT Int. Appl.  
CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	---	-----	-----	-----
PI WO 2005005621	A2	20050120	WO 2004-EP7530	20040708
WO 2005005621	A3	20050407		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2004256209	A1	20050120	AU 2004-256209	20040708
CA 2558946	A1	20050120	CA 2004-2558946	20040708
EP 1644486	A2	20060412	EP 2004-740822	20040708
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK			
US 20080019952	A1	20080124	US 2007-594188	20070621

L5 ANSWER 3 OF 3 LIFESCI COPYRIGHT 2008 CSA on STN  
AU Li, Li; Arman, Esther; Ekblom, Peter; Edgar, David; Murray, Patricia;  
Lonai, Peter  
TI Distinct GATA6- and laminin-dependent mechanisms regulate endodermal and

ectodermal embryonic stem cell fates  
SO Development, (20041101) vol. 131, no. 21, pp. 5277-5286.  
ISSN: 0950-1991.

=> d au ti so pi 1-3 16

L6 ANSWER 1 OF 3 MEDLINE on STN DUPLICATE 1  
AU King James A; Miller William M  
TI Bioreactor development for stem cell expansion and controlled  
differentiation.  
SO Current opinion in chemical biology, (2007 Aug) Vol. 11, No. 4, pp. 394-8.  
Electronic Publication: 2007-07-25. Ref: 37  
Journal code: 9811312. ISSN: 1367-5931.

L6 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN  
AU Cameron, C. M.; Hu, Wei-Shou; Kaufman, Dan S.  
TI Improved development of human embryonic stem cell-derived embryoid bodies  
by stirred vessel cultivation  
SO Biotechnology and Bioengineering (2006), 94(5), 938-948  
CODEN: BIBIAU; ISSN: 0006-3592

L6 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2008 ACS on STN  
AU Schroeder, Magnus; Niebruegge, Sylvia; Werner, Andreas; Willbold, Elmar;  
Burg, Monika; Ruediger, Manfred; Field, Loren J.; Lehmann, Juergen;  
Zweigerdt, Robert  
TI Differentiation and lineage selection of mouse embryonic stem cells in a  
stirred bench scale bioreactor with automated process control  
SO Biotechnology and Bioengineering (2005), 92(7), 920-933  
CODEN: BIBIAU; ISSN: 0006-3592

=> d au ti so pi 1-18 111

L11 ANSWER 1 OF 18 MEDLINE on STN DUPLICATE 1  
AU Niebruegge Sylvia; Nehring Andrea; Bar Harald; Schroeder Magnus; Zweigerdt  
Robert; Lehmann Juergen  
TI Cardiomyocyte production in mass suspension culture: embryonic  
stem cells as a source for great amounts of functional  
cardiomyocytes.  
SO Tissue engineering. Part A, (2008 Oct) Vol. 14, No. 10, pp. 1591-601.  
Journal code: 101466659. ISSN: 1937-3341.

L11 ANSWER 2 OF 18 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
AU Anonymous; Okano, Hideyuki [Inventor]; Shimazaki, Takuya [Inventor]  
TI Process for producing nerve stem cells, motor neurons, and GABAergic  
neurons from embryonic stem cells.  
SO Official Gazette of the United States Patent and Trademark Office Patents,  
(NOV 13 2007)  
CODEN: OGUPE7. ISSN: 0098-1133.  
PI US 07294510 20071113

L11 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN  
AU Verma, V.; Gautam, S. K.; Singh, B.; Manik, R. S.; Palta, P.; Singla, S.  
K.; Goswami, S. L.; Chauhan, M. S.  
TI Isolation and characterization of embryonic stem cell-like cells from in  
vitro-produced buffalo (Bubalus bubalis) embryos  
SO Molecular Reproduction and Development (2007), 74(4), 520-529  
CODEN: MREDEE; ISSN: 1040-452X

L11 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

AU zur Nieden, Nicole I.; Cormier, Jaymi T.; Rancourt, Derrick E.; Kallos, Michael S.  
 TI Embryonic stem cells remain highly pluripotent following long term expansion as aggregates in suspension bioreactors  
 SO Journal of Biotechnology (2007), 129(3), 421-432  
 CODEN: JBITD4; ISSN: 0168-1656

L11 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN  
 IN Tanaka, Noriaki; Kobayashi, Naoya  
 TI Method for inducing differentiation of embryonic stem cells into hepatocytes, and applications of induced hepatocytes  
 SO PCT Int. Appl., 44pp.  
 CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006082890	A1	20060810	WO 2006-JP301762	20060202
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
EP 1842905	A1	20071010	EP 2006-712905	20060202
R: DE, FR, GB				
US 20080206733	A1	20080828	US 2007-883597	20070802
CN 101233227	A	20080730	CN 2006-80006881	20070903

L11 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN  
 AU Cormier, Jaymi T.; Zur Nieden, Nicole I.; Rancourt, Derrick E.; Kallos, Michael S.  
 TI Expansion of Undifferentiated Murine Embryonic Stem Cells as Aggregates in Suspension Culture Bioreactors  
 SO Tissue Engineering (2006), 12(11), 3233-3245  
 CODEN: TIENFP; ISSN: 1076-3279

L11 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN  
 AU Cameron, C. M.; Hu, Wei-Shou; Kaufman, Dan S.  
 TI Improved development of human embryonic stem cell-derived embryoid bodies by stirred vessel cultivation  
 SO Biotechnology and Bioengineering (2006), 94(5), 938-948  
 CODEN: BIBIAU; ISSN: 0006-3592

L11 ANSWER 8 OF 18 MEDLINE on STN DUPLICATE 2  
 AU Jiang Zhong-ming; Ji Pei-hong; Liu Jun; Tang Yue-jun; Li Sheng-jiao; Li Wen-lin  
 TI Induction of mouse embryonic stem cells forming odontoblast-like cells by co-culture with pulp fibroblast.  
 SO Shanghai kou qiang yi xue = Shanghai journal of stomatology, (2006 Dec) Vol. 15, No. 6, pp. 653-6.  
 Journal code: 101090220. ISSN: 1006-7248.

L11 ANSWER 9 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN  
 AU Sidhu, Kuldeep S.; Tuch, Bernard E.  
 TI Derivation of three clones from human embryonic stem cell lines by FACS sorting and their characterization

SO Stem Cells and Development (2006), 15(1), 61-69  
CODEN: SCDTAE; ISSN: 1547-3287

L11 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN  
IN Barde, Yves-Alain; Bibel, Miriam; Richter, Jens; Tucker, Kerry Lee  
TI Differentiation of embryonic stem cells into neuronal precursors in the  
presence of retinoic acid, and drug screening applications  
SO PCT Int. Appl., 71 pp.  
CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2005105986	A2	20051110	WO 2005-EP4886	20050504
WO 2005105986	A3	20060223		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2005238202	A1	20051110	AU 2005-238202	20050504
AU 2005238202	B2	20081009		
CA 2563570	A1	20051110	CA 2005-2563570	20050504
EP 1747266	A2	20070131	EP 2005-741810	20050504
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 1997733	A	20070711	CN 2005-80021045	20050504
BR 2005010572	A	20071120	BR 2005-10572	20050504
JP 2007535957	T	20071213	JP 2007-512024	20050504
IN 2006DN06336	A	20070831	IN 2006-DN6336	20061027
MX 2006PA12720	A	20070116	MX 2006-PA12720	20061103
KR 2007015563	A	20070205	KR 2006-723144	20061103
US 20080171350	A1	20080717	US 2008-568748	20080328

L11 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN  
IN Kolossov, Eugen; Kettenhofen, Ralf; Kopp, Isabella; Bohlen, Heribert; Schwengberg, Silke  
TI Novel method for the preparation of embryoid bodies (ebs) and uses thereof  
SO PCT Int. Appl.  
CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
PI WO 2005005621	A2	20050120	WO 2004-EP7530	20040708
WO 2005005621	A3	20050407		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004256209	A1	20050120	AU 2004-256209	20040708

CA 2558946	A1	20050120	CA 2004-2558946	20040708
EP 1644486	A2	20060412	EP 2004-740822	20040708
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
US 20080019952	A1	20080124	US 2007-594188	20070621

L11 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN  
IN Gryseels, Timothy David; Hambor, John Edward; Hawrylik, Steven Joseph; Roach, Marsha Lynn  
TI Suspension method for producing embryoid  
bodies, and compositions and methods related thereto  
SO PCT Int. Appl., 91 pp.  
CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2004039966	A1	20040513	WO 2003-IB4639	20031020
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003269379	A1	20040525	AU 2003-269379	20031020
US 20040096967	A1	20040520	US 2003-698840	20031031

L11 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN  
IN Condie, Brian; Bieberich, Erhard  
TI Enrichment and production of human neural stem cells using ceramide analogs and MEDII conditioned medium, and PAR-4-mediated modulation of apoptosis, and therapeutic use  
SO PCT Int. Appl., 88 pp.  
CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
PI WO 2004029203	A2	20040408	WO 2003-US30112	20030925
WO 2004029203	A3	20050825		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003276924	A1	20040419	AU 2003-276924	20030925
US 20060014280	A1	20060119	US 2005-529115	20050815
US 7445931	B2	20081104		

L11 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN  
IN Schulz, Thomas C.; Condie, Brian G.; Davidson, Bruce; Stice, Steven L.  
TI Neural differentiation of human pluripotent embryonic stem cells using serum free MEDII conditioned medium and use for neural disease treatment  
SO PCT Int. Appl., 88 pp.  
CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2004015077	A2	20040219	WO 2003-US24864	20030808
	WO 2004015077	A3	20040513		
	WO 2004015077	A9	20040617		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	WO 2003095629	A1	20031120	WO 2003-AU552	20030509
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003259072	A1	20040225	AU 2003-259072	20030808
	EP 1534068	A2	20050601	EP 2003-785049	20030808
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	US 20060121607	A1	20060608	US 2005-524157	20050822

L11 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN  
IN Okano, Hideyuki; Shimazaki, Takuya; Nagao, Shogo; Matsumoto, Yoshito  
TI Method for screening memory disorder treatment drug  
SO Jpn. Kokai Tokkyo Koho, 12 pp.  
CODEN: JKXXAF

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	JP 2004215565	A	20040805	JP 2003-6298	20030114
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L11 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN  
IN Davidson, Bruce Paul  
TI Production of neural progenitor cells from pluripotent cells  
SO PCT Int. Appl., 74 pp.  
CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2003095629	A1	20031120	WO 2003-AU552	20030509
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003221637	A1	20031111	AU 2003-221637	20030509
	WO 2004015077	A2	20040219	WO 2003-US24864	20030808
	WO 2004015077	A3	20040513		

WO 2004015077            A9            20040617  
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,  
PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,  
TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,  
KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,  
FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,  
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
AU 2003259072            A1            20040225            AU 2003-259072            20030808  
EP 1534068                A2            20050601            EP 2003-785049            20030808  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK  
US 20050244964            A1            20051103            US 2005-514094            20050627  
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L11 ANSWER 17 OF 18 MEDLINE on STN DUPLICATE 3  
AU Sun L; Bradford C S; Barnes D W  
TI Feeder cell cultures for zebrafish embryonal cells in vitro.  
SO Molecular marine biology and biotechnology, (1995 Mar) Vol. 4, No. 1, pp.  
43-50.  
Journal code: 9205135. ISSN: 1053-6426.

L11 ANSWER 18 OF 18 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on  
STN  
AU Kioussi, Chrissa; Yamada, Gen [Reprint author]  
TI Double labeling of mRNA and protein markers in cultured embryoid bodies.  
SO Journal of Tissue Culture Methods, (1994) Vol. 16, No. 1, pp. 11-16.  
ISSN: 0271-8057.

=> d ab 12-18 l11

L11 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN  
AB Suspension methods and compns. for effecting large-scale in vitro  
differentiation of mammalian embryonic stem cells are provided, as well as  
methods comprising the subject large-scale in vitro differentiation  
methods.

L11 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN  
AB The present invention provides compns. and methods for human neural cell  
production More particularly, the present invention provides cellular  
differentiation methods employing amphiphilic lipid compds., preferably  
ceramide analogs of the  $\beta$ -hydroxyalkylamine type and optionally  
employing an essentially serum free MEDII conditioned medium for the  
generation of human neural cells from pluripotent human cells. The  
methods alternatively comprise modulating apoptosis by modifying the  
levels of PAR-4, with or without the presence of amphiphilic lipid compds.  
and optionally employing MEDII conditioned medium. The methods  
alternatively encompass modulating apoptosis by modulating the  
intracellular concentration of endogenous lipid second messengers, such as  
ceramide. The neural cell of the invention can be used for therapy of a  
neural disease.

L11 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN  
AB The present invention provides compns. and methods for human neural cell  
production More particularly, the present invention provides cellular  
differentiation methods employing an essentially serum free MEDII  
conditioned medium, together with SSEA4 selection and protease passaging

techniques for the generation of human neural cells from pluripotent and multipotent human stem cells. Formation and characterization of embryoid bodies from human embryonic stem cells in serum-free conditions is shown. The invention provides a method of treating a patient with a neural disease by administering a therapeutically effective amount of the neural cells produced using the methods of the invention.

L11 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

AB A method is provided for screening a drug for memory disorder caused by Alzheimer disease or else. The method is characterized in that it comprises performing suspension culture of embryonic stem cells in the presence or absence of Noggin protein to form embryoid body, performing suspension culture of embryoid body in the presence of fibroblast growth factor and sonic hedgehog protein to make nerve stem cell proliferate, producing cholinergic neuron by differentiation in the presence of a test substance, and selecting the test substance effecting on differentiation/proliferation of cholinergic neuron. Alternatively, a test sample is added in the replacement of at least one kind from Noggin protein, fibroblast growth factor and sonic hedgehog protein.

L11 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2008 ACS on STN

AB A method of producing neural progenitor cells and/or neuronal cells which method includes providing a source of pluripotent cells; a cell aggregate-inducing culture medium; and a neural inducing supplement; culturing the pluripotent cells in the cell aggregate-inducing culture medium, in the presence of the neural inducing supplement, for a period sufficient to permit cell aggregates or embryoid bodies (EB's) to form, wherein the EB's include neural progenitor cells; and culturing the cell aggregates including neural progenitor cells for a period sufficient to permit neuronal differentiation.

L11 ANSWER 17 OF 18 MEDLINE on STN DUPLICATE 3

AB Use of fibroblast cells derived from mouse embryos as feeder layers was one of the major steps leading to the establishment of pluripotential mouse embryonal stem (ES) cells in culture. In attempts to obtain a culture of pluripotential ES cells from zebrafish, a culture of fibroblastoid cells, designated zebrafish embryo fibroblast (ZEF), was established from early gastrula stage zebrafish embryos for use as feeder layer. In primary cultures initiated from early embryos of zebrafish without feeder layers, melanocytes appeared on the second day of culture. In contrast, melanogenesis was markedly suppressed in cocultures containing confluent monolayers of ZEF or Buffalo rat liver (BRL) cells. BRL cells are commonly used feeder layer cells for mouse ES cells. Suppression of melanogenesis was not observed in primary cultures initiated in medium containing human recombinant differentiation-inhibiting activity (DIA) or in medium conditioned by cultures of BRL feeder cells. Proliferation of zebrafish embryonal cells was enhanced significantly in cocultures with either feeder layer. Zebrafish embryonal cells cocultured short-term on ZEF and BRL feeder layers gave rise to melanocytes and formed embryoid body-like structures when removed from feeder layers and cultured in suspension, suggesting that the cells remained pluripotent in culture.

L11 ANSWER 18 OF 18 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN

AB In vitro suspension cultures of embryonal carcinoma or embryonic stem cells (EC/ES) generate cell aggregates



termed as embryoid bodies (EBs). EBs have been analyzed to study the mechanisms of cellular differentiation in vitro. The multipotency of EC/ES cells to differentiate into various cell types as well as the expression of many marker genes provides a valuable in vitro model system to study the mechanisms of cellular differentiation. Here we present a procedure for a mRNA detection of a specific gene using double labeling-mRNA probe and an antibody against cellular marker proteins. This double labeling analysis in combination with a culture of EBs provides a useful approach to analyze several mechanisms of cellular differentiation from multipotent EC/ES cells.